

## EXECUTIVE SUMMARY

Prepared January 27, 2003

<b>Mine Name:</b> Henefer Red Clay	<b>I.D. Number:</b> M/043/014
<b>Operator:</b> Interpace Industries, Inc.	<b>County:</b> Summit
<b>Address:</b> 736 West Harrisville Road	<b>New/Existing:</b> Status changing from SMO to LMO
P.O. Box 12118	<b>Mineral Ownership:</b> Fee
Ogden, Utah 84412	<b>Surface Ownership:</b> Fee
<b>Telephone:</b> (801) 782-7933 - fax: (801) 782-5047	<b>Lease No.(s):</b> N/A
<b>Contact Person:</b> Aaron Hancock	<b>Permit Term:</b> Life of Mine

**Life of Mine:** Estimated for 15 years.

**Legal Description:** Portions of the NE 1/4 of Section 34, Township 4 North, Range 4 East, SLBM, Summit County, Utah

**Mineral(s) to be Mined:** Red Clay.

**Acres to be Disturbed:** 17.9 acres.

**Present Land Use:** Grazing and wildlife habitat.

**Postmining Land Use:** Grazing and wildlife habitat.

**Variances from Reclamation Standards (Rule R647) Granted:** No variances were requested.

### Soils and Geology

**Soil Description:** Soils in the area are iron-rich degraded Paleocene clays of the Echo Formation. Soil depth ranges from 6-8 inches. These soils have a considerable cobble/pebble component.

**pH:** pH ranges from 8.0 to 8.5.

**Special Handling Problems:** No special handling problems are anticipated.

**Geology Description:** The clay deposit is from the middle to lower portion of the Paleocene Echo Formation. The unit is about 60 million years old and is made up of sand to cobble sized particles in a red clay matrix. The rock component is mostly quartzite, derived primarily from the Targhee Uplift of eastern Idaho.

### Hydrology

**Ground Water Description:** Depth to groundwater is unknown. Impacts to groundwater are unlikely since this operation only involves stripping clay off the surface to a shallow depth.

**Surface Water Description:** There are no springs or permanent streams in the area. An ephemeral drainage exists adjacent to the operations. This drainage is well vegetated with no erosional patterns or evidence of surface flows. The watershed area above the site is about 200 acres. No storm runoff has been observed for several years.

**Water Monitoring Plan:** None required.

## Ecology

**Vegetation Type(s); Dominant Species:** This operation is within the Sagebrush – Grass community. Dominant species include big sagebrush, bluebunch wheatgrass and muttongrass.

**Percent Surrounding Vegetative Cover:** The percent ground cover of vegetation in the adjacent undisturbed areas is 50%. The revegetation success standard for this site will be 35% ground cover.

**Wildlife Concerns:** This area is adjacent to the Henefer/Echo Wildlife Management Area controlled by the Utah Division of Wildlife Resources, which is managed for big game winter range. Operation and reclamation plans are designed so as not to create undo impacts to the wildlife resources of the area.

**Surface Facilities:** There are no permanent facilities at this site. Equipment used at the site during mining activities include a dozer, front-end loader, and a portable screen. Clay and screened rock are stockpiled on site until shipped.

## Mining and Reclamation Plan Summary:

**During Operations:** The mining will consist of pushing the clay material down a natural slope with a dozer where it is transported by a front-end loader to a vibrating or rotary screen. The screen separates the clay from the rock fragment and is loaded onto trucks and shipped to the brick-making facility in Ogden. The screened rock is stockpiled on site until sold. Topsoil/overburden material are stripped and stockpiled for reclamation prior to removal of the clay. There are no permanent structures on site. When fuel is stored on site, it will have secondary containment with a capacity of 110% of the storage tank to contain any spill that may occur. There is no public vehicle access to this site due to the area being managed as part of the Henefer Wildlife Management Area and is behind locked gates.

**After Operations:** The access road (3.5 acres) will remain for access to the private property, Wildlife Resources employees and fire crews to access the Henefer/Echo Wildlife Management Area. No slopes steeper than 30 degrees will remain. All areas will have topsoil or amended soil resources replaced at a depth of 8-10 inches. All areas to be seeded will be amended with 10-tons per acre of composted manure. All disturbed areas will be ripped to a depth of 18 inches to alleviate compaction. The ephemeral drainage will be re-established through the reclaimed area. The channel will average 10-15 feet wide and 3-4 feet deep. The site will then be revegetated in the fall by broadcasting an approved seed mixture designed to provide quality winter forage for big game species.

## Surety

**Amount:** \$62,100 in 2008 dollars. (Operator posted \$63,300)

**Form:** Letter of Credit, Bankone (#STR19967)

**Renewable Term:** 5 years